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EXAMINER

INGBERG, TODD D

| ART UNIT | PAPER NUMBER |
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2124

DATE MAILED: 09/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/839,646

Applicant(s)

CHARISIUS ET AL.

Examiner

Todd Ingberg

Art Unit

2124

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 August 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-36 is/are pending in the application.
- 4a) Of the above claim(s) 37-161 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 4/20/2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) •
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

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DETAILED ACTION

Group I - Claims 1 – 36 have been examined.

Claims 37 – 161 are available for Divisional Applications.

Priority

1. Examiner acknowledges the claim to priority.

Claim Rejections - 35 USC § 101

2. Claims 1 – 36 are rejected for being non statutory under 35 USC § 101. The examined has provided one way to overcome the rejection.

Claim 1

A method in a data processing system executing on a computer and stored on a computer readable medium, the method comprising the steps of receiving a request to generate a distributed computing component, generating code corresponding to the distributed computing component, the code containing a method having one of a plurality of types; and displaying a graphical representation of the code that includes a separately delineated display area for each of the plurality of types.

Claim 10

A method in a data processing system executing on a computer and stored on a computer readable medium, the method comprising the steps of receiving a request to generate a distributed computing component generating code corresponding to the distributed computing component, the code containing a method having one of a plurality of types, associating a symbol with each type, and displaying a graphical representation of the method with the symbol indicating the type of the method.

Claim 19

A method in a data processing system stored on a computer readable medium comprising a software development tool, the method comprising the steps of: initiating execution of the software development tool; and while the software development tool is executing, the software development tool performs the steps of receiving an indication to generate a distributed computing component; generating source code corresponding to the distributed computing component; compiling the source code to form executable code for the distributed computing component; generating a deployment descriptor file that includes a plurality of properties to control deployment of the distributed computing component on a computer and to control a relationship between the distributed computing component and a deployment environment on the computer; storing executable code for the distributed computing component and the deployment descriptor file in a deployment archive, deploying the distributed computing component to the computer; and initiating execution of the distributed computing component on the computer.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4. Claims 1 – 5, 7 – 17 19 - 29 rejected under 35 U.S.C. 102(a, b) as being anticipated by **IBM** product Enterprise Javabeans Development Using VisualAge for JAVA, published June 1999.

Claim 1

IBM anticipates a method in a data processing system, the method comprising the steps of receiving a request to generate a distributed computing component (**IBM**, pages 7 – 8, ORBs), generating code corresponding to the distributed computing component (**IBM**, pages 7 – 8, ORBs), the code containing a method having one of a plurality of types (**IBM**, page 35, Figure 10 and page 44, Figure 17, tabs across top and page 45 type panel); and displaying a graphical representation of the code that includes a separately delineated display area for each of the plurality of types (**IBM**, page 35, Figure 10 and page 44, Figure 17, tabs across top).

Claim 2

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The method of claim 1, further comprising the step of displaying a symbol in each separately delineated display area, wherein the symbol indicates the type of method displayed in the display area. (IBM, page 35, Figure 10 and page 44, Figure 17, circular symbols above tabs across top).

Claim 3

The method of claim 1, wherein the graphical representation of the code includes a separately delineated display area for reference types in the code. (IBM as per claim 1 and page 37).

Claim 4

The method of claim 1, wherein the one type is a create method type (IBM, page 48 – 51).

Claim 5

The method of claim 1, wherein the one type is a finder method type. (IBM, pages 288 to 290 , Generated methods (getters) and page 48).

Claim 7

The method of claim 1, wherein the distributed computing component (IBM, Distributed Environment pages 7 and 8 make possible with ORBs) is an Enterprise JavaBean. (IBM, pages 34 to 41).

Claim 8

The method of claim 1, wherein the distributed computing component (IBM, Distributed Environment pages 7 and 8 make possible with ORBs) is a Session-Bean (IBM, page 14 and Chapter 3 section 3.1)

Claim 9

The method of claim 1, wherein the distributed computing component (IBM, Distributed Environment pages 7 and 8 make possible with ORBs) is an EntityBean (IBM, page 14 and Chapter 3 section 3.2).

Claim 10

IBM anticipates a method in a data processing system, the method comprising the steps of receiving a request to generate a distributed computing component generating code corresponding to the distributed computing component (IBM, Distributed Environment pages 7 and 8 make possible with ORBs), the code containing a method having one of a plurality of types, associating a symbol with each type, and displaying a graphical representation of the method with the symbol indicating the type of the method (As per claims 1 and 2).

Claim 11

The method of claim 10, wherein the step of generating code comprises the steps of generating code corresponding to an implementation class, generating code corresponding to a home interface that is related to the implementation class, and generating code corresponding to a remote interface that is related to the implementation class. (IBM, page 76, #5, page 76, Home Interface, page 78, Remote Interface)

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Claim 12

The method of claim 11, wherein the code corresponding to the implementation class contains the method and the code corresponding to the home interface contains a signature of the method (IBM, page 15).

Claim 13

The method of claim 12, further comprising the step of displaying the symbol indicating the type of the method (IBM, page 35, circular "M") with a graphical representation of the signature. (IBM, page 35, interface).

Claim 14

The method of claim 11, wherein the code corresponding to the implementation class contains the method and the code (by definition of a class and page 288 – 290 examples) corresponding to the remote interface contains a signature of the method. (IBM, page 35, interface, and pages 32 to 33).

Claim 15

The method of claim 14, further comprising the step of displaying the symbol indicating the type of the method (IBM, page 35, circular "M") with a graphical representation of the signature. (IBM, page 35, interface).

Claim 17

The method of claim 11, further comprising the step of displaying a graphical representation of the code corresponding to the home interface (IBM, page 35, interface and page 135) that includes a separately delineated display area for a create method type and a finder method type (IBM, pages 288 to 290 , Generated methods (getters) and page 48).

Claim 19

IBM anticipates a method in a data processing system comprising a software development tool (IBM, page 4 , Visual Age for JAVA), the method comprising the steps of initiating execution of the software development tool (IBM, page 4 , Visual Age for JAVA – starting the product); and while the software development tool is executing, the software development tool performs the steps of receiving an indication to generate a distributed computing component (IBM, pages 7 to 8, ORBs); generating source code corresponding to the distributed computing component (IBM, pages 288 to 290 , Generated methods (getters) and page 48) compiling the source code to form executable code for the distributed computing component (IBM, page xix); generating a deployment descriptor file that includes a plurality of properties to control deployment of the distributed computing component on a computer and to control a relationship between the distributed computing component and a deployment environment on the computer storing executable code for the distributed computing component and the deployment descriptor file in a deployment archive (IBM, pages 85 - 91 , JAR –Interpreted to be the inherent manifest file of a JAR file), deploying the distributed computing component to the computer; and initiating

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execution of the distributed computing component on the computer (IBM, Distributed Environment pages 7 and 8 make possible with ORBs).

Claim 20

The method of claim 19, wherein the source code includes an implementation class. (IBM, page 76, #5)

Claim 21

The method of claim 19, wherein the source code includes a home interface. (IBM, page 76, Home Interface).

Claim 22

The method of claim 19, wherein the source code includes a remote interface. (IBM, page 78, Remote Interface)

Claim 23

The method of claim 19, wherein the source code includes a primary key class. (IBM, pages 78 and 134 to 137, Primary key)

Claim 24

The method of claim 19 further comprising the step of storing deployment information associated with the distributed computing component in a comment of the source code for the distributed computing component. (IBM, pages 85 - 91 , JAR –Interpreted to be the inherent manifest file of a JAR file)

Claim 25

The method of claim 24, wherein the step of generating the deployment descriptor file further comprises the step of retrieving the deployment information associated with the distributed computing component from the comment of the source code corresponding to the distributed computing component, and storing the deployment information in the deployment descriptor file. (IBM, pages 85 - 91 , JAR –Interpreted to be the inherent manifest file of a JAR file)

Claim 26

The method of claim 25, further comprising the steps of: receiving a change to the deployment information associated with the distributed computing component contained in the deployment descriptor file, and modifying the deployment information in the comment of the source code for the distributed computing component to reflect the change. (IBM, pages 85 - 91 , JAR – Interpreted to be the inherent manifest file of a JAR file)

Claim 27

The method of claim 24, wherein the deployment information includes at least one of the plurality of properties (IBM, page 86, last item on drop down list).

Claim 28

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The method of claim 19, wherein the step of deploying the distributed computing component comprises the step of transferring the deployment archive to the computer. (IBM, pages 85 - 91 , JAR)

Claim 29

The method of claim 19, wherein the software development tool is located on the computer. (IBM, page 4 , Visual Age for JAVA)

Claim 30

The method of claim 19, further comprising the step of initiating execution of a debugger to facilitate testing the distributed computing component on the computer. (IBM, page 37, EJB page second circular symbol is a debugger symbol to start the debugger and page xix).

Claim 31

The method of claim 30, wherein the step of initiating the execution of the distributed computing component comprises initiating the execution of the distributed computing component in one debug session. As per claim 30.

Claim 32

The method of claim 30, further comprising the steps of receiving an indication of a client software component, and initiating execution of the client software component in another debug session. (IBM, page 67, Test Client)

Claim 33

The method of claim 32, wherein the client software component when executing invokes a method associated with the distributed computing component. (IBM, Distributed Environment pages 7 and 8 make possible with ORBs).

Claim 34

The method of claim 19, further comprising the steps of generating a plurality of web pages to test the distributed computing component after deployment, and providing a client application with an address for access , the web pages. (IBM, pages 84 and 180, web page generation)

Claim 35

The method of claim 34, wherein one of web pages contains code that is responsive to all invocation from the client application to execute a method for the executable code of the distributed computing component. (IBM, Distributed Environment pages 7 and 8 make possible with ORBs).

Claim 36

The method of claim 35, wherein another of the web pages contains code that provides a result to the client application in response to the execution of the method in the executable code of the distributed computing component. (IBM, Distributed Environment pages 7 and 8 make possible with ORBs).

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 6 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over IBM as applied to claim 1 – 5, 7 – 9 and 10 – 15 above, and further in view of the design decision of adding a tab specifically for business method.

Claims 6, 16 and 18 are rejected by IBM in view of a design decision of adding a tab for business methods. IBM teaches business methods on pages 26 to 29), and the Visual Age product supports the development of business methods. However, IBM does not explicitly have a tab or symbol dedicated strictly for a business methods. One of ordinary skill in the art at the time of invention, knowing how to build a development system with the tabs currently in the Visual Age product would know how to add a Business method tab, Such a modification would be obvious because it makes the product more intuitive.

Claim 6

The method of claim 1, wherein the one type is a business method type.

Claim 16

The method of claim 11, further comprising the step of displaying a graphical representation of the code corresponding to the implementation class that includes a first separately delineated display area for a create method type, a second separately delineated display area for a finder method type (IBM, pages 288 to 290 , Generated methods (getters)) , and. a third separately delineated display area for a business method type.

Claim 18

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The method of claim 11, further comprising the step of displaying a graphical representation of the code corresponding to the remote interface that includes a separately delineated display area for a business method type.

Correspondence Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Todd Ingberg** whose telephone number is (703) 305-9775.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Kakali Chaki** can be reached on (703) 305-9662. Please, note that as of August 4, 2003 the **FAX number** changed for the organization where this application or proceeding is assigned is **(703) 872-9306**.

Also, be advised the United States Patent Office **new address** is

Post Office Box 1450

Alexandria, Virginia 22313-1450

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-9700.

Special Notice

8. Please, Note the Examiner's telephone number will change in October when the Art Unit moves to the new location. The Examiner's new telephone number will be as follows:

(571) 272-3723

Application/Control Number: 09/839,646

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A handwritten signature in black ink, appearing to read 'Todd Ingberg', with a long horizontal stroke extending to the right.

Todd Ingberg

Primary Examiner

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September 20, 2004